



Australian Government

**TLILIC2005A Licence to operate a
boom-type elevating work platform (boom
length 11 metres or more)**

Release 2

TLILIC2005A Licence to operate a boom-type elevating work platform (boom length 11 metres or more)

Modification History

Release 2. This is the second release of this unit in the TLI10 Transport and Logistics Training Package Version 4.0.

In Release 2 the spelling of 'meters' has been changed to 'metres' throughout the unit (typo). Release 2 is equivalent to the previous release.

Unit Descriptor

This unit specifies the outcomes required to operate a boom-type elevating work platform (boom length 11 metres or more) for licensing purposes, and involves the operation of a telescoping device, hinged device, or articulated device or any combination of these used to support a platform on which personnel, equipment and materials may be elevated to perform work. The 11 metre boom length shall be taken to mean the greater of the following:

- (a) The vertical distance from the floor of the platform to the surface supporting the elevating work platform with the platform at its maximum height; or
- (b) The nominal reach, measured horizontally from the centre point of rotation to the outer edge of the platform in its most extended position.

Application of the Unit

This unit requires the operator to plan the work, conduct routine checks, set up elevating work platform, operate elevating work platform and shut down and secure elevating work platform. This unit is based on the requirements of the National Standard for Licensing Persons Performing High Risk Work.

This unit in its current form meets state and territory licensing requirements. Any alteration will result in a unit which is not acceptable to regulators for the purpose of licensing.

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Nil.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

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|---------------------------------|--|
| 1 Plan work | 1.1 Potential workplace hazards are identified |
| | 1.2 Hazard control measures are identified consistent with appropriate standards to ensure the safety of personnel and equipment |
| | 1.3 Elevating work platform is appropriate for the task |
| | 1.4 Appropriate communication methods are identified |
| 2 Conduct routine checks | 2.1 Service logbook for elevating work platform is checked for compliance |
| | 2.2 Elevating work platform is visually checked for any defects or damage according to procedures |
| | 2.3 Routine pre-operational checks are carried out according to procedures |
| | 2.4 Safety equipment is inspected according to procedures |
| | 2.5 Elevating work platform is accessed in a safe manner |
| | 2.6 Fit safety equipment and secure to platform according to procedures |
| | 2.7 All controls are located and identified |
| | 2.8 Elevating work platform is started according to procedures |
| | 2.9 All safety devices are identified and tested according to procedures |
| | 2.10 Post-start operational checks are carried out according to procedures |
| | 2.11 All communication equipment is checked (where applicable) |
| | 2.12 All defects and damage are reported and recorded in according to procedures, and appropriate action is taken |

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| 3 Set up elevating work platform | <ul style="list-style-type: none">3.1 Ground suitability is inspected and checked3.2 Elevating work platform is driven to or located at work area according to procedures (where applicable)3.3 Elevating work platform is positioned for work application and stability according to procedures3.4 Appropriate hazard prevention/control measures are applied to the work area according to procedures3.5 Work gear and tools are stowed and secured |
| 4 Operate elevating work platform | <ul style="list-style-type: none">4.1 Elevating work platform is operated using all relevant plant movements according to procedures and the appropriate standards4.2 Elevating work platform is mobiled using best mobile practice and appropriate procedures4.3 Elevated working platform operations are monitored constantly ensuring safety of personnel and stability4.4 Unplanned and/or unsafe situations are responded to in line with procedures |
| 5 Shut down and secure elevating work platform | <ul style="list-style-type: none">5.1 Elevating work platform is lowered and stowed according to procedures5.2 All relevant motion locks and brakes are applied (where applicable)5.3 Safety equipment is disconnected from platform5.4 Egress from elevated work platform is conducted according to procedures5.5 Outriggers/stabilisers are stowed and secured according to procedures (where applicable)5.6 Plates or packing are stowed and secured (where applicable)5.7 Elevating work platform is shut down according to procedures5.8 Routine post-operational checks are carried out according to procedures5.9 All defects and damage are reported and recorded according to procedures, and appropriate action is taken |

Required Skills and Knowledge

This section describes the knowledge and skills required for this unit.

Required knowledge:

- Appropriate mathematical procedures for estimation of loads, to ensure that the elevating work platform is not overloaded
- Commonwealth, state or territory OH&S legislation, standards and codes of practice relevant to the full range of processes for conducting elevating work platform operations
- Ability to read and comprehend manufacturer's instructions, procedures and safety signs
- Understanding of elevating work platform operations and operating techniques
- Emergency procedures and safety equipment, including the use of safety harness, energy absorber, lanyard and anchor points
- Understanding of organisational and workplace standards, requirements, policies and procedures for conducting elevating work platform operations
- Understanding of the hierarchy of hazard identification and control
- Procedures for the recording, reporting and maintenance of workplace records and information, including the use of the service logbook
- Typical routine problems encountered in the process and with equipment and adjustments required for correction

Required skills:

- Accurately record and maintain information relating to elevating work platform operations
- Assess ground conditions to confirm that the site is suitable (e.g. firm, level and safe) to extend and travel the elevating work platform
- Complete the positioning, stabilising, set up of elevating work platforms, including the use of outriggers/stabilisers and packing
- Operate mobile elevating work platform using best mobile practice
- Use communication skills at a level sufficient to communicate with other site personnel
- Operate and control an elevating work platform including all functions to their maximum extension within the safe working (rated) capacity
- Apply risk assessment and hazard control strategies, including hierarchy of control as applied to the positioning and safe operation of the elevating work platform (particular awareness of the risks associated with overhead powerlines/electrical cables, ground conditions, wind, pedestrians and tipping)
- Use and interpret manufacturer's specifications and data
- Identify problems and equipment faults and where practicable demonstrate appropriate response procedures

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

Overview of assessment

- Successful assessment of this unit meets the competency requirement of the National Standard for Licensing Persons Performing High Risk Work.
- State/territory OH&S regulators have mandated the use of Assessment Instruments and Instructions for Assessment for this unit which have been endorsed by the national body responsible for OH&S matters.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- Compliance with OH&S licensing legislation.
- Emergency procedures and safety equipment, including the use of safety harnesses, energy absorbers, lanyard and anchor points.
- Assessment of ground conditions to confirm that the site is suitable (e.g. firm, level and safe) to extend and travel the elevating work platform.
- Risk assessment and hazard control strategies, including hierarchy of control as applied to the positioning and safe operation of the elevating work platform (particular awareness of the risks associated with overhead powerlines/electrical cables, ground conditions, wind, pedestrians and tipping).
- Appropriate procedures for estimation of loads, to ensure that the elevating work platform is not overloaded.
- Positioning and operation of the elevating work platform to ensure that the safest lift is performed.

Context of and specific resources for assessment

- Assessment of the safe and effective application of knowledge and skill to workplace tasks (performance) must be undertaken using the endorsed Assessment Instrument.
- Assessment of performance must be undertaken either in the workplace or in a realistically simulated workplace.
- Assessors must ensure that the assessment in the workplace is organised to ensure that all the required equipment and materials and a suitable working area is made available to suit the assessment and the workplace.
- Assessment must occur under standard and authorised work practices, safety requirements and environmental constraints.
- Assessment is to comply with relevant appropriate standard requirements.
- Applicants must have access to:
 - Personal Protective Equipment (PPE) for the purpose of

the Performance Assessment

- appropriate safety equipment in safe condition
- appropriate elevated working platform and associated equipment in safe condition
- communication equipment (e.g. two-way radios, mobile phones etc.) where applicable.

Method of assessment

- Assessment must be conducted using the endorsed Assessment Instruments. These Instruments provide advice on their application.

The use of 'simulators' in the assessment of this unit of competency is not acceptable.

- Assessment may be in conjunction with the assessment of other units of competency.
- Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge.
- Assessment must confirm a reasonable inference that competency is not only able to be satisfied under the particular circumstances, but is able to be transferred to other circumstances.

Guidance information for assessment

- Further information about endorsed Assessment Instruments may be obtained from state/territory OH&S regulators.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

Hazards may include:

- ground stability (e.g. ground condition, recently filled trenches, slopes)
- overhead hazards (e.g. powerlines, service pipes, trees, buildings etc.)
- insufficient lighting
- traffic (e.g. pedestrians, vehicles, plant)
- environmental conditions (e.g. wind, lightning, storms, etc.)
- other specific hazards (e.g. tidal areas, chainsaws, pressure washers, dangerous materials)

Hazard control measures may include:

Refers to the systematic process of eliminating or reducing the risk to personnel and property through the application of controls

It includes the application of the hierarchy of control - the six-step preference of control measures to manage and control risk:

- 1) 1. elimination
- 2) 2. substitution
- 3) 3. isolation
- 4) 4. engineering control measures
- 5) 5. using safe work practices
- 6) 6. personal protective equipment

Appropriate standards may include:

- codes of practice
- legislation
- Australian Standards
- manufacturer's specifications
- industry standards (where applicable)

Elevating work platform may include:

The operation of a telescoping device, hinged device, or articulated device or any combination of these used to support a platform on which personnel, equipment and materials may be elevated to perform work. Excluded from this definition are platforms of less than 11 metres boom length.

The 11 metre boom length shall be taken to mean the greater of the following:

- (a) The vertical distance from the floor of the platform to the surface supporting the elevating work platform with the platform at its maximum height; or
- (b) The nominal reach, measured horizontally from the centre point of rotation to the outer edge of the platform in its most extended

	position
Communication method may include:	<ul style="list-style-type: none"> • verbal and non-verbal language • written instructions • signage • hand signals • listening • questioning to confirm understanding • appropriate worksite protocol
Service logbook may include:	<ul style="list-style-type: none"> • any logbook • service book • history record system where the service and maintenance history is kept
Procedures may include:	<ul style="list-style-type: none"> • manufacturer's guidelines (instructions, specifications, operators manual or checklists) • industry operating procedures • workplace procedures (work instructions, operating procedures, checklists)
Safety equipment may include:	<ul style="list-style-type: none"> • safety harness • energy absorber • lanyard • anchor points
Safety devices may include:	<ul style="list-style-type: none"> • horns/sirens • audible and visual reversing devices • operator restraint devices (platform gate) • lights (where applicable)
Communication equipment may include:	<ul style="list-style-type: none"> • two-way radios • mobile phone
Ground suitability may include:	<ul style="list-style-type: none"> • rough uneven ground • backfilled ground • soft soils • hard compacted soil • rock • bitumen • concrete
Stability may include:	<ul style="list-style-type: none"> • deploying outriggers • establishing correct size plates or packing • correctly positioning plates or packing
Hazard prevention/control	<ul style="list-style-type: none"> • safety tags on electrical switches/isolators • insulated powerlines • safety observer used inside exclusion zone

- measures may include:
- disconnected power
 - traffic barricades and controls
 - illumination requirements
 - pedestrian controls
 - trench covers
 - movement of obstructions
 - personal protective equipment
 - suitable area for set-up
 - suitable firm and stable standing
- Relevant plant movements may include:
- raising boom
 - lowering boom
 - slewing
 - hinging
 - articulating
 - telescoping
- Best mobile practice may include:
- minimum speed
 - gentle acceleration and braking
 - minimum boom/jib length
 - avoiding ground depressions
- Unplanned and/or unsafe situations may include:
- loss of power
 - failure of controls
 - contact with overhead electrical conductors
 - damage caused by contact with obstructions
 - illness of personnel
- Shut down may include:
- retracting boom/jib (where applicable)
 - folding boom/jib into the transport position
 - retracting outriggers/stabilisers
 - idling engine to stabilise temperature
 - turning off engine (where applicable)
 - removing key from ignition (where applicable)

Unit Sector(s)

Not Applicable.